

10520549 mm/dd/yyyy>

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NEWS 4 JAN 07 WPIDS, WPINDEX, and WPIX enhanced Japanese Patent  
Classification Data  
NEWS 5 FEB 02 Simultaneous left and right truncation (SLART) added  
for CERAB, COMPUAB, ELCOM, and SOLIDSTATE  
NEWS 6 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING  
NEWS 7 FEB 06 Patent sequence location (PSL) data added to USGENE  
NEWS 8 FEB 10 COMPENDEX reloaded and enhanced  
NEWS 9 FEB 11 WTEXTILES reloaded and enhanced  
NEWS 10 FEB 19 New patent-examiner citations in 300,000 CA/CAPLUS  
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and 2009 MeSH terms  
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precise author group fields and 2009 MeSH terms  
NEWS 15 FEB 23 Three million new patent records blast AEROSPACE into  
STN patent clusters  
NEWS 16 FEB 25 USGENE enhanced with patent family and legal status  
display data from INPADOCDB  
NEWS 17 MAR 06 INPADOCDB and INPAFAMDB enhanced with new display  
formats  
NEWS 18 MAR 11 EPFULL backfile enhanced with additional full-text  
applications and grants  
NEWS 19 MAR 11 ESBIOBASE reloaded and enhanced  
NEWS 20 MAR 20 CAS databases on STN enhanced with new super role  
for nanomaterial substances  
NEWS 21 MAR 23 CA/CAPLUS enhanced with more than 250,000 patent  
equivalents from China  
NEWS 22 MAR 30 IMSPATENTS reloaded and enhanced  
NEWS 23 APR 03 CAS coverage of exemplified prophetic substances  
enhanced  
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NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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FILE 'HOME' ENTERED AT 15:47:06 ON 23 APR 2009

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.22	0.22

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DICTIONARY FILE UPDATES: 22 APR 2009 HIGHEST RN 1138219-76-7

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

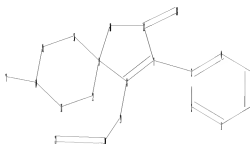
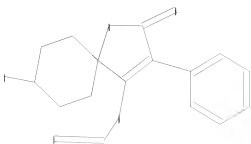
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Uploading C:\Program Files\Stnexp\Queries\10520549.str

10520549 mm/dd/yyyy>



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ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
chain bonds :
3-7 8-19 11-18 14-17 19-20 20-21
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 9-12 9-16 10-11 12-13 13-14
14-15 15-16
exact/norm bonds :
7-8 7-11 8-9 8-19 9-10 9-12 9-16 10-11 11-18 12-13 13-14 14-15 14-17
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exact bonds :
3-7
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :
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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS
20:CLASS 21:CLASS
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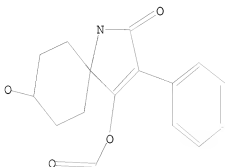
L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1 STR

10520549 mm/dd/yyyy>



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 15:47:36 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 103 TO ITERATE

100.0% PROCESSED 103 ITERATIONS

20 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1452 TO 2668

PROJECTED ANSWERS: 132 TO 668

L2 20 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 15:47:42 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2127 TO ITERATE

100.0% PROCESSED 2127 ITERATIONS

326 ANSWERS

SEARCH TIME: 00.00.01

L3 326 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

185.88

186.10

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FILE COVERS 1907 - 23 Apr 2009 VOL 150 ISS 17  
FILE LAST UPDATED: 22 Apr 2009 (20090422/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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=> s l3  
L4 167 L3

=> file reg	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	1.00	187.10

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DICTIONARY FILE UPDATES: 22 APR 2009 HIGHEST RN 1138219-76-7

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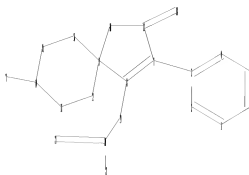
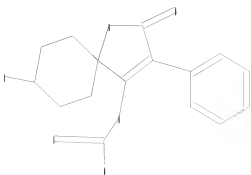
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chain nodes :
17 18 19 20 21 23
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
chain bonds :
3-7 8-19 11-18 14-17 19-20 20-21 20-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 9-12 9-16 10-11 12-13 13-14
14-15 15-16
exact/norm bonds :
7-8 7-11 8-9 8-19 9-10 9-12 9-16 10-11 11-18 12-13 13-14 14-15 14-17
15-16 19-20 20-21 20-23
exact bonds :
3-7
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :
```

```
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS
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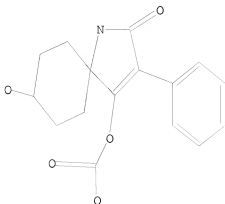
L5 STRUCTURE UPLOADED

=> d

L5 HAS NO ANSWERS

L5 STR

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=> s 15

SAMPLE SEARCH INITIATED 15:49:30 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 38 TO ITERATE

100.0% PROCESSED 38 ITERATIONS 12 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 391 TO 1129  
PROJECTED ANSWERS: 32 TO 446

L6 12 SEA SSS SAM L5

=> s 15 full

FULL SEARCH INITIATED 15:49:39 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 747 TO ITERATE

100.0% PROCESSED 747 ITERATIONS 169 ANSWERS  
SEARCH TIME: 00.00.01

L7 169 SEA SSS FUL L5

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	185.88	372.98

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FILE COVERS 1907 - 23 Apr 2009 VOL 150 ISS 17

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=> s l7

L8 163 L7

=> d ibib abs hitstr 140-163



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18 ANMER 140 OF 163 CAPLOS COPYRIGHT 2009 ACS ON STM (Continued)

ACCESSION NUMBER: 20051472132 CAPLOS

DOCUMENT NUMBER: 14317595

TITLE: Preparation of of spirocyclic phenylpyrrolidinediones as herbicides

INVENTOR(S): Kaden, Christoph; Fischer, Helmut; Lehn, Stefan; Drewna, Mark Wilhelm; Feucht, Dieter; Koenig, Georg; Lenzel, Peter; Malsen, Olaf; Rejzner, Guido; Arnold, Christian; Auler, Thomas; Bille, Martin; Jeffery, John; Reiny, Ruediger; Christopher Rugh

PATENT ASSIGNEE(S): Bayer CropScience Aktiengesellschaft, Germany; Lubau-Erdlen, Angelika

SOURCE: ECT Int. Appl., 151 pp.

DOCUMENT TYPE: Patent

CORRESP: PEXAD0

LANGUAGE: German

FAMILY ACC. NUM. COUNTRY: 1

PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005049519	A1	20050602	WO 2004-EP12444	20041109
Wt, Ad, Ag, Al, Am, At, Av, Az, Ba, Bb, Bc, Bd, Be, Bf, Bg, Bh, Bi, Bj, Bk, Bl, Bm, Bn, Bp, Bq, Br, Bs, Bt, Bu, Bv, Bw, Bx, By, Bz, Ca, Cb, Cc, Cd, Ce, Cf, Cg, Ch, Ci, Cj, Ck, Cl, Cm, Cn, Co, Cp, Cq, Cr, Cs, Ct, Cu, Cv, Cw, Cx, Cy, Cz, Da, Db, Dc, Dd, De, Df, Dg, Dh, Di, Dj, Dk, Dl, Dm, Dn, Do, Dp, Dq, Dr, Ds, Dt, Du, Dv, Dw, Dx, Dy, Dz, Ea, Eb, Ec, Ed, Ee, Ef, Eg, Eh, Ei, Ej, Ek, El, Em, En, Eo, Ep, Eq, Er, Es, Et, Eu, Ev, Ew, Ex, Ey, Ez, Fa, Fb, Fc, Fd, Fe, Ff, Fg, Fh, Fi, Fj, Fk, Fl, Fm, Fn, Fo, Fp, Fq, Fr, Fs, Ft, Fu, Fv, Fw, Fx, Fy, Fz, Ga, Gb, Gc, Gd, Ge, Gf, Gg, Gh, Gi, Gj, Gk, Gl, Gm, Gn, Go, Gp, Gq, Gr, Gs, Gt, Gu, Gv, Gw, Gx, Gy, Gz, Ha, Hb, Hc, Hd, He, Hf, Hg, Hh, Hi, Hj, Hk, Hl, Hm, Hn, Ho, Hp, Hq, Hr, Hs, Ht, Hu, Hv, Hw, Hx, Hy, Hz, Ia, Ib, Ic, Id, Ie, If, Ig, Ih, Ii, Ij, Ik, Il, Im, In, Io, Ip, Iq, Ir, Is, It, Iu, Iv, Iw, Ix, Iy, Iz, Ja, Jb, Jc, Jd, Je, Jf, Jg, Jh, Ji, Jj, Jk, Jl, Jm, Jn, Jo, Jp, Jq, Jr, Js, Jt, Ju, Jv, Jw, Jx, Jy, Jz, Ka, Kb, Kc, Kd, Ke, Kf, Kg, Kh, Ki, Kj, Kl, Km, Kn, Ko, Kp, Kq, Kr, Ks, Kt, Ku, Kv, Kw, Kx, Ky, Kz, La, Lb, Lc, Ld, Le, Lf, Lg, Lh, Li, Lj, Lk, Ll, Lm, Ln, Lo, Lp, Lq, Lr, Ls, Lt, Lu, Lv, Lw, Lx, Ly, Lz, Ma, Mb, Mc, Md, Me, Mf, Mg, Mh, Mi, Mj, Mk, Ml, Mm, Mn, Mo, Mp, Mq, Mr, Ms, Mt, Mu, Mv, Mw, Mx, My, Mz, Na, Nb, Nc, Nd, Ne, Nf, Ng, Nh, Ni, Nj, Nk, Nl, Nm, Nn, No, Np, Nq, Nr, Ns, Nt, Nu, Nv, Nw, Nx, Ny, Nz, Oa, Ob, Oc, Od, Oe, Of, Og, Oh, Oi, Oj, Ok, Ol, Om, On, Oo, Op, Oq, Or, Os, Ot, Ou, Ov, Ow, Ox, Oy, Oz, Pa, Pb, Pc, Pd, Pe, Pf, Pg, Ph, Pi, Pj, Pk, Pl, Pm, Pn, Po, Pp, Pq, Pr, Ps, Pt, Pu, Pv, Pw, Px, Py, Pz, Qa, Qb, Qc, Qd, Qe, Qf, Qg, Qh, Qi, Qj, Qk, Ql, Qm, Qn, Qo, Qp, Qq, Qr, Qs, Qt, Qu, Qv, Qw, Qx, Qy, Qz, Ra, Rb, Rc, Rd, Re, Rf, Rg, Rh, Ri, Rj, Rk, Rl, Rm, Rn, Ro, Rp, Rq, Rr, Rs, Rt, Ru, Rv, Rw, Rx, Ry, Rz, Sa, Sb, Sc, Sd, Se, Sf, Sg, Sh, Si, Sj, Sk, Sl, Sm, Sn, So, Sp, Sq, Sr, Ss, St, Su, Sv, Sw, Sx, Sy, Sz, Ta, Tb, Tc, Td, Te, Tf, Tg, Th, Ti, Tj, Tk, Tl, Tm, Tn, To, Tp, Tq, Tr, Ts, Tt, Tu, Tv, Tw, Tx, Ty, Tz, Ua, Ub, Uc, Ud, Ue, Uf, Ug, Uh, Ui, Uj, Uk, Ul, Um, Un, Uo, Up, Uq, Ur, Us, Ut, Uv, Uw, Ux, Uy, Uz, Va, Vb, Vc, Vd, Ve, Vf, Vg, Vh, Vi, Vj, Vk, Vl, Vm, Vn, Vo, Vp, Vq, Vr, Vs, Vt, Vu, Vv, Vw, Vx, Vy, Vz, Wa, Wb, Wc, Wd, We, Wf, Wg, Wh, Wi, Wj, Wk, Wl, Wm, Wn, Wo, Wp, Wq, Wr, Ws, Wt, Wu, Wv, Ww, Wx, Wy, Wz, Xa, Xb, Xc, Xd, Xe, Xf, Xg, Xh, Xi, Xj, Xk, Xl, Xm, Xn, Xo, Xp, Xq, Xr, Xs, Xt, Xu, Xv, Xw, Xx, Xy, Xz, Ya, Yb, Yc, Yd, Ye, Yf, Yg, Yh, Yi, Yj, Yk, Yl, Ym, Yn, Yo, Yp, Yq, Yr, Ys, Yt, Yu, Yv, Yw, Yx, Yy, Yz, Za, Zb, Zc, Zd, Ze, Zf, Zg, Zh, Zi, Zj, Zk, Zl, Zm, Zn, Zo, Zp, Zq, Zr, Zs, Zt, Zu, Zv, Zw, Zx, Zy, Zz				

DE 10354629 A1 20050609 DE 2003-10354629 20031122

AD 2004281236 A1 20050602 AD 2004-281236 20041109

CA 2546315 A1 20050602 CA 2004-2546315 20041109

EP 2457212 A1 20050609 EP 2004-003114 20041109

Kt, At, Re, Ch, De, Es, Ff, Gg, Hh, Ii, Ll, Lj, Ll, Mm, Nn, Pp, Rr, Ss, Tt, Uu, Vv, Ww, Xx, Yy, Zz

KA 2004016209 A1 20051226 KA 2004-16209 20041109

JP 4314372 A1 20070214 JP 2004-0040780 20041109

JP 2007513822 T 20070215 JP 2006-140242 20041109

US 2007029869 A1 20071227 US 2007-578900 20070308

FIGURE 1

WO 2004-EP12444 W 20041109

OTHER SOURCE(S):

GI: MARPAT 143:7595

18 ANMER 140 OF 163 CAPLOS COPYRIGHT 2009 ACS ON STM (Continued)



825218-08-5 CAPLOS

CH Carboxylic acid, ethyl 3-(2-ethyl-4,6-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (ICI INDEX NAME)



825218-09-6 CAPLOS

CH Carboxylic acid, ethyl 3-(2-ethyl-4,6-dimethylphenyl)-2-oxo-8-propoxy-1-azaspiro[4.5]dec-3-en-4-yl ester (ICI INDEX NAME)

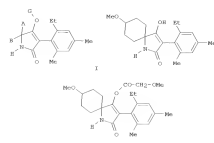


REFERENCE COUNT: 7

OTHER SOURCE(S):

GI: MARPAT 143:7595

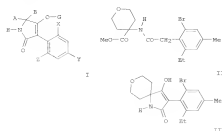
18 ANMER 140 OF 163 CAPLOS COPYRIGHT 2009 ACS ON STM (Continued)



AB Title compd. 1 (A-B = together with the carbon atom form a heterocyclic ring with previously 0 = COR1, C1=HMER, 00237, etc.; R1 = alkyl, alkenyl, alkoxyalkyl, etc.; R2 = halo-substituted alkyl, alkenyl, alkoxyalkyl, etc.; R3 = halo-substituted alkyl, alkenyl, alkoxyalkyl, etc.; 1 = 0, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 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10520549 mm/dd/yyyy>

18 ANSWER 141 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



AB Title compds. I [X = halo; Y = alkyl; Z = alkyl; A and B together with a heteroatom form a ring (etc); O = H, COH, SOH; R1 = alkyl, alkenyl, alkynyl, etc.; R2 = halo substituted alkyl, alkyl, alkenyl, etc.], etc. were prepared. For example, intramolecular condensation of Me ester II, afforded pyrrolidines III in 84% yield. In a Myra peroxide protection assay, at 100 ppm pyrrolidines III exhibited 75% protection after 6 days. Comps. I are claimed to be useful as herbicides.

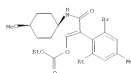
IT 85059-12-IP 85059-13-2P 85059-14-6P  
85059-15-4P 85059-16-2P  
R1 AGO (Agricultural use); RHO (Biological study, unclassified); SPN (Synthetic preparation); BLO (Biological study); PREP (Preparation); USES (Uses)

[Preparation of spirocyclic phenylpyrrolidines as herbicides]

HN 85059-12-2 CAPLUS  
CN Carbonic acid, cis-3-[2-bromo-6-ethyl-4-methylphenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (PCI) (CA INDEX NAME)

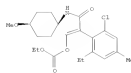
Relative stereochemistry.

18 ANSWER 141 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



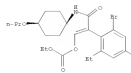
HN 85059-13-3 CAPLUS  
CN Carbonic acid, cis-3-[2-chloro-6-ethyl-4-methylphenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (PCI) (CA INDEX NAME)

Relative stereochemistry.



HN 85059-14-4 CAPLUS  
CN Carbonic acid, cis-3-[2-bromo-6-ethyl-4-methylphenyl]-2-oxo-8-propoxy-1-azaspiro[4.5]dec-3-en-4-yl ester (PCI) (CA INDEX NAME)

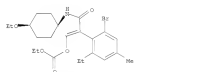
Relative stereochemistry.



HN 85059-15-5 CAPLUS  
CN Carbonic acid, cis-3-[2-bromo-6-ethyl-4-methylphenyl]-8-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (PCI) (CA INDEX NAME)

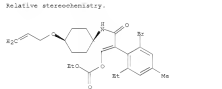
Relative stereochemistry.

18 ANSWER 141 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



HN 85059-16-6 CAPLUS  
CN Carbonic acid, cis-3-[2-bromo-6-ethyl-4-methylphenyl]-2-oxo-8-(2-propenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (PCI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE 95

FORMAT

18 ANSWER 142 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 200514983 CAPLUS  
DOCUMENT NUMBER: 142129079  
TITLE: Synergistic insecticidal and acaricidal mixtures of cyclic keto-enols and phthalic acid diamides  
INVENTOR(S): Fischer, Melnyk, Fischer, Huediger, Funke, Christian, Thierley, Wolfgang  
PATENT ASSIGNER(S): Bayer CropScience Aktiengesellschaft, Germany  
SOURCE: PCT Int. Appl., 41 pp.  
COUNTRY: FIRED  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY APP. NUM. COUNTRY: 1  
PRIORITY INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NO 2005004603	A1	20050110	NO 2004-EP8914	20040125
WI, AU, AG, AL, AM, AT, AU, BA, BB, BD, BF, BG, BY, BE, CA, CH, CN, CO, CU, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IL, IN, JP, KR, KZ, LB, LU, LV, LY, MA, MD, ME, MG, MK, MN, MU, NL, NO, NZ, OM, OS, PA, PT, RU, SC, SE, SG, SI, SK, ST, SV, TH, TM, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
BR, BG, CH, CN, CU, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IL, IN, JP, KR, KZ, LB, LU, LV, LY, MA, MD, ME, MG, MK, MN, MU, NL, NO, NZ, OM, OS, PA, PT, RU, SC, SE, SG, SI, SK, ST, SV, TH, TM, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
DE 10330724	A1	20050117	DE 2003-10330724	20030708
NO 2004255412	A1	20050120	NO 2004-155412	20040225
EP 1446211	EP	20050413	EP 2004-740223	20040215
EP 1446211	EP	20050523		
BR 2004013862	A	20040805	BR 2004-12862	20040205
CN 1813767	A	20040816	CN 2004-8081945	20040205
AT 36760	T	20070615	AT 2004-740223	20040205
DE 2286641	T3	20071101	DE 2004-740223	20040205
JP 2009135601	T	20090402	JP 2004-138040	20040205
ZA 2006000020	A	20060829	ZA 2006-000020	20061213
ZA 2006000099	A	20070328	ZA 2006-99	20060104
MD 2006000200	A	20060411	MD 2006-000200	20060105
US 20070265246	A1	20071115	US 2007-563794	20070402
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			WO 2004-EP8914	W 20040225

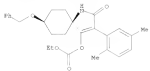
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Page 13

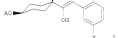




LANGUAGE: C  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

[illegible]

OTHER SOURCE(S): NAKPAT 140:111273



AB Title compds. [3; X = alkyl, halo, alkoxy, haloalkyl, haloalkoxy; Y = alkyl, alkoxy, halo, haloalkyl, haloalkoxy; A = Cl-6 alkyl; G = H, COR, CORMe; M = O, S; R1 = [halogenated] alkyl, alkynyl, alkoxyalkyl, alkythioalkyl, etc.; R2 = [halogenated] alkyl, alkynyl, alkoxyalkyl, polyalkoxyalkyl, etc.], were prepared. Thus, a mixture of 3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one

in chlorobenzene followed by stirring for 4 h at 60°-65° to gave 98% 3-(2,3-dimethylphenyl)-4-ethylcarbonyloxy-8-methoxy-1-  
asapirrol[4,5]dec-3-en-2-one. The latter at 20 ppm gave 90% control of  
AChA synthesis.

IT 647852-66-2P  
K: AGN (Agricultural use); BSU (Biological study, unclassified); BCT (Reactant); SYN (Synthetic preparation); BICL (Biological study); PREP (Preparation); REACT (Reactant or reagent); USES (Uses)

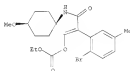
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      (preparation of cis-alkoxy-substituted spirocyclic
1N-pyrrolidine-2,4-diones
as insecticides)

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647852-00-2 CAS/US  
Carbonic acid, *o*is-3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azabicyclo[4.5.1]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

Relative stereochemistry.



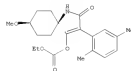
IT 203313-25-1P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPH  
 (Synthetic preparation); BGL (Biological study); PREP (Preparation);

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(Users)
  preparation of cis-alkoxy-substituted spirocyclic
  3H-pyrazolines 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836
```

CH Carbonic acid, cis-3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-  
azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

Relative stereochemistry



LS	ARMER 148 OF 63	CAPLUS	COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:		2002136823	CAPLUS
DOCUMENT NUMBER:		136165293	
TITLE:		Synergistic insecticidal and acaricidal mixtures containing cyclic ketenols.	
INVENTOR(S):		Fischer, Reiner; Kodello, Christoph	
PATENT ASSIGNEE(S):		Bayer Aktiengesellschaft, Germany	
SOURCE:		PCT Int. Appl., 66 pp.	
		CODEN: P1XKX2	
DOCUMENT TYPE:		Patent	
LANGUAGE:		German	
EMILY ACT NUM CYCLES:			

[illegible]

OTHER SOURCE(S): MARKPAT 136:365293

AB The title binary mixts. consist of known cyclic ketonols (Markush given) and any of 32 known acaricides [no examples].

IT 392608-08-4D, mixts. with acaricides 392608-10-8D, mixts. with acaricides 392608-14-2D, mixts. with acaricides

EL: AGS (Agricultural use); NIOI (Biological study); USES (Uses)

LA	ANSWER 149 OF 163	CAPLUS	COPYRIGHT 2009 ACS ON STN
ACCESSION NUMBER:		2002:293765	CAPLUS
DOCUMENT NUMBER:		136:320810	
TITLE:		Systemic insecticidal, fungicidal and acaricidal	
		substances	
INVENTOR(S):		Fischer, Reiner; Machendorff-Neumann, Ulrike	
PATENT ASSIGNEE(S):		Baycr: Aktiengesellschaft, Germany	
SOURCE:		PCT Int. Appl., 79 pp.	
		CODEN: P13620	
DOCUMENT TYPE:		Patent	
LANGUAGE:		German	
FAMILY ACC. NUM. COUNT:		1	
PATENT INFORMATION:			

[illegible]

OTHER SOURCE(S):	MARUPT 136;320810
AE The title mixta comprises known cyclic ketoneols (Markush given) and any of 95 known bicyclic ketones, fungicides or acaricides, such as: acetylacetone, telonazole, triadimenol, triadimenol, triadimenol, difenoxazole, flusilazole, penoxobenzothiazole, penoxobenzothiazole, etc.	
IT 32105-08-49, mixta. containing 32105-10-3D, mixta. containing 32105-14-29, mixta. containing	
EU Act. (Biological study): UNCLASIFIED (Biological use, unclassified); UNCLASIFIED (Biological study); USES (MARKUSH)	
(asymmetric pesticide mixta.)	
32105-08-41 CAPLOS	
Catechol acid, 2-(3-bromo-5-methylphenyl)-8-methoxy-2-oxo-3-oxo-3-oxo-4(5)-dec-3-one-4-yl, ethyl ester, [CA INDEX NAME]	

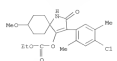
L9 ANSWER 148 OF 163 CARLOS COPYRIGHT 2009 ACS on STN (Continued)  
[symmetric insecticidal and acaricidal compns.].  
R9 38240-08-4 CARLOS  
C9 Carboxic acid, 3-[2-bromo-5-methylphenyl]-8-methoxy-2-oxo-1-  
azapropyl[4,5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 782408-10-8 CAPLOS  
 CN Carbonic acid,  
 3-(12,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-  
 ene-4-yl ethyl ester (CA INDEX NAME)



EN 382608-14-2 CAPLOS  
CN Carboxylic acid, 3-(4-chloro-2,5-dimethylphenyl)-8-methoxy-2-oxo-1-  
azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

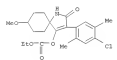
18 ANSWER 149 OF 163 CAPLOS COPYRIGHT 2009 ACS on STN (Continued)



IN 382608-10-8 CAPLUS  
 CN Carboxylic acid,  
 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-2-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



FN	382608-14-2	CAPLUS
CN	Carbonic acid, 3-(4-chloro-2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)	



REFERENCE COURT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT





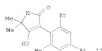




10520549 mm/dd/yyyy>

LS ANSWER 154 OF 163 CAPLOS COPYRIGHT 2009 ACS ON STN (Continued)  
CN 2004-1007484 A1 20010321  
MO 2001-RP3215 M 20010321

OTHER SOURCE(S):  
GI MARKET 135:288887



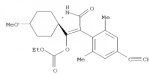
AB Title compds. 1) [M = H, alkyl, alkenyl, alkynyl; X = alkyl, alkenyl, alkynyl; Y = H, Me, Et, MeOEt, alkenyl, alkynyl; Z = H, alkyl, alkenyl, alkynyl; W, X, Y, Z = chain containing 2-6 atoms; R = Q1, Q2, etc.; A = (halo-substituted) alkyl, alkenyl, alkynyl, (substituted) heterocycloalkyl, etc.; B = H, alkyl, alkenyl, alkynyl, AB, AD = atom to form a (substituted) heterocycloalkyl ring; S = H, (substituted) alkyl, alkenyl, alkynyl, (unsatd.) heterocycloalkyl, etc.; C = H, acyl], were prepared. Thus, 2,4-dimethyl-6-methylphenylacetic acid

was stirred with SOCl<sub>2</sub> and the residue in THF was added to a 0-10° solution of Me 2-amino-2-methylpropionate and Et<sub>3</sub>N in THF followed by stirring from 1 h to give 614, which was heated with KOH in DMF to give 154 title compound (11). 11 at 1000 ppm gave 1004 kill of Dephosphatase activity on rice seedlings.

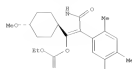
IT 364374-04-39 364374-04-39 364374-04-39  
31 ACN (Agricultural use); BAC (Biological activity or effector, except adverse); BUC (Biological study); PEP (Preparation); USES (Uses) [preparation of aryl-substituted heterocyclic ketoneols as pesticides and herbicides]

32 364374-04-39 CAPLOS  
CN Carboxylic acid, ethyl  
cis-3-[5-ethyl-2,4-dimethylphenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (9C1) (CA INDEX NAME)  
Relative stereochemistry.

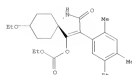
LS ANSWER 154 OF 163 CAPLOS COPYRIGHT 2009 ACS ON STN (Continued)



32 364374-07-2 CAPLOS  
CN Carboxylic acid, ethyl  
cis-3-[5-ethyl-2,4-dimethylphenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (9C1) (CA INDEX NAME)  
Relative stereochemistry.



32 364374-08-3 CAPLOS  
CN Carboxylic acid, cis-8-ethoxy-3-[5-ethyl-2,4-dimethylphenyl]-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (9C1) (CA INDEX NAME)  
Relative stereochemistry.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE SE

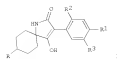
FORMAT

LS ANSWER 155 OF 163 CAPLOS COPYRIGHT 2009 ACS ON STN (Continued)  
ACCESSION NUMBER: 1999-70878 CAPLOS  
DOCUMENT NUMBER: 11510566  
TITLE: Arylphenyl-substituted cyclic keto enols as insecticides and acaricides  
INVENTOR(S): Liebs, Folker; Fischer, Reiner; Graff, Alan  
Schneider,

USO, Bretschneider, Thomas; Reuland, Christoph; Anderach, Wolfang; Drewes, Mark; Wilhelm, Dillmar; Markus, Metochowaky, Ingo; Feuchtl, Dieter; Fontana, Ralf; Myers, Randy Allen  
Bayer A.-G., Germany  
PCT Int. Appl., 245 pp.  
COBENT 973002  
PATENT ASSIGNEE(S): Patent  
SOURCE: German  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNTRY: 1  
PATENT INFORMATION: 1

PATENT NO.	FILED DATE	APPLICATION NO.	DATE
WO 9955613	AL 19991104	MO 1999-RP2488	19990414
US 6,141,400	AL 19991104	MO 1999-RP2488	19990414
DE 19910732	AL 19991028	DE 1998-1980732	19990427
AC 9954215	A 19991116	AC 1998-54215	19990414
EP 9951034	A 20001236	EP 1999-10074	19990414
EP 1174465	EP 20010214	EP 1998-021739	19990414
JP 200151202	T 20000509	JP 2000-145833	19990414
US 6418443	NL 20000917	US 2001-673907	20010102
US 2002039606	AL 20000522	US 2002-192362	20020710
PRIORITY APPL. INFO.	DE 1998-1980732	A 19980427	
	MO 1998-RP2488	M 19990414	
	US 2001-673907	A1 20010102	

OTHER SOURCE(S):  
GI MARKET 131:310546



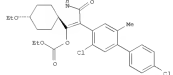
saeed

LS ANSWER 155 OF 163 CAPLOS COPYRIGHT 2009 ACS ON STN (Continued)

AB Title compds. were prepared for use as insecticides and acaricides.  
Thus, pyriroline 1 [R = Me, R2 = 4-ClC6H4, R3 = Me, R4 = Cl] was prepared by treating 1 [R3 = Me] with 4-ClC6H4COOH. 1 [R = Me, R2 = 4-ClC6H4, R3 = Cl, R4 = Me] at 18 gave 904 kill of Phaedon cochleariae and at 2.14 gave 904 kill of Trypanosoma utricles.

IT 27902-08-39  
31 ACN (Agricultural use); BAC (Biological activity or effector, except adverse); BUC (Biological study); PEP (Preparation); USES (Uses) [preparation of biphenylpyrrolones as insecticides and acaricides]

32 27902-08-39 CAPLOS  
CN Carboxylic acid, cis-3-[4',5'-dichloro-2-methyl[1,1'-biphenyl]-4-yl]-8-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (9C1) (CA INDEX NAME)  
Relative stereochemistry.



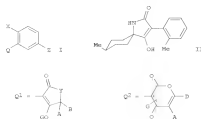
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE SE

FORMAT





18 ANSWER 158 OF 163 CAPLUS COPYRIGHT 2009 ACS ON STM (Continued)



AB Title compds. [1] X = halo, alkyl, alkenyl, alkynyl, alkoxy, benzyloxy, haloalkyl, haloalkoxy, cyano, NO<sub>2</sub>; Y = H, amino, halo, alkyl, alkoxy, haloalkyl, haloalkoxy, CN, cyano, NO<sub>2</sub>, (substituted) PhO, PhS, heteroaryloxy, heteroaryloxythio, phenylalkoxy, phenylalkylthio; Q = Q1, Q2; Y = H, CN, or A = (substituted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, (unsatd.) cycloalkyl, heterocycloalkyl, aryl, aralkyl, heteroaryl, B = alkyl, alkoxyalkyl; Ar, Ar' = atoms to form (unsatd.) (substituted) carbocyclic or heterocyclic ring; B = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, (unsatd.) cycloalkyl, heterocycloalkyl, aralkyl, aryl, heteroaryloxyalkyl, heteroaryl; Q = H, aryl, were prepared Thus, title compound (III) (preparation given)

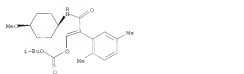
at Q-1 gave 100% kill of *Phasmodon cochleariae* larvae on cabbage leaves.  
 IT 203113-22-5P 203113-23-3P 203113-24-3P 203113-25-3P  
 203113-26-3P 203113-27-3P 203113-28-3P 203113-29-3P  
 203113-30-3P 203113-31-3P 203113-32-3P 203113-33-3P  
 203113-34-3P 203113-35-3P 203113-36-4P 203113-37-5P  
 203113-38-5P 203113-39-6P 203113-39-7P  
 Hs AB (Agricultural use); HsC (Biological activity or effector, except adjuvant); HsD (Biological study, unsatisfactory); HsE (Synthetic preparation); HsG (Biological study); HsH (Preparation); HsI (Uses) (Preparation of phenyl-substituted heterocyclic benzamide as pesticides)

203113-22-3 CAPLUS  
 CN Carboxylic acid, ethyl  
 3-(2,5-dimethylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

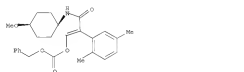
18 ANSWER 158 OF 163 CAPLUS COPYRIGHT 2009 ACS ON STM (Continued)

Relative stereochemistry.



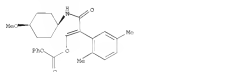
203113-32-5 CAPLUS  
 CN Carboxylic acid, 3-(2,5-dimethylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl phenylmethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



203113-33-1 CAPLUS  
 CN Carboxylic acid, 3-(2,5-dimethylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl phenyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

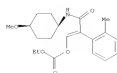


203113-34-2 CAPLUS  
 CN Carboxylic acid, ethyl 3-(2-methoxy-3-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

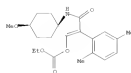
seed

18 ANSWER 158 OF 163 CAPLUS COPYRIGHT 2009 ACS ON STM (Continued)



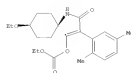
203113-25-1 CAPLUS  
 CN Carboxylic acid, cis-3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

Relative stereochemistry.



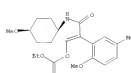
203113-27-3 CAPLUS  
 CN Carboxylic acid, 2-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



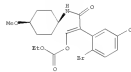
203113-31-9 CAPLUS  
 CN Carboxylic acid, 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 2-methylpropyl ester, cis- (9CI) (CA INDEX NAME)

18 ANSWER 158 OF 163 CAPLUS COPYRIGHT 2009 ACS ON STM (Continued)



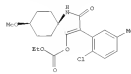
203113-35-3 CAPLUS  
 CN Carboxylic acid, 3-(1-bromo-5-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



203113-36-4 CAPLUS  
 CN Carboxylic acid, 3-(1-chloro-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

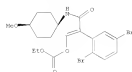


203113-37-5 CAPLUS  
 CN Carboxylic acid, 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

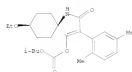
10520549 mm/dd/yyyy&gt;

18 ANIML 138 OF 163 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



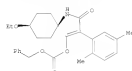
IN 203313-38-6 CAPLUS  
 CN Carbonic acid,  
 3-(2,3-dimethylphenyl)-8-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-  
 ene-4-yl 2-methylpropanoate ester, nia- (907) CCA TUNNEY NAME

Relative stereochemistry.



220 203313-39-7 CAPLUS  
 C09 Carbonic acid,  
 3-[2,5-dimethylphenyl]-8-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-  
 en-4-yl ethoxymethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry



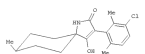
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

12 ANSWER 138 OF 163 CAPLUS COPYRIGHT 2002 ACS on STM (Continued)

18	ANNUA 29 OF 363	CARLOS CORTEZ1987 2009 ACS ON STN
19	ACCESSION NUMBER:	197914956 ACCESSION
20	DOCUMENT NUMBER:	197914956
21	ORIGINAL REFERENCE NO.:	197914956, 624064
22	INVESTOR(S):	Amyer, Carlisle to: eggs as pesticides and herbicides
23	Author:	Liebh, Wolfgang; Hagmann, Hermann; Wiedig, Arnoy
24	Parent ASSOCIATION(S):	Müller, Fischer, Helmer; Bretschneider, Thomas; Kresale, Christoph; Machendorf-Hermann, Ulrike; Graff, Alany; Schenck, Hermann
25	REMARKS:	Wiedig A.-G.; Hagmann, Lieb, Volker; Hagmann, Rüdiger A.; Germany Müller, Fischer, Helmer; Bretschneider, Thomas; Kresale, Christoph; Machendorf-Hermann, Ulrike; et al.
26	SOURCE:	PGT Int. Appl., 192 pp.
27	DOCUMENT TYPE:	CORRESP FIELD
28	LANGUAGE:	Patent
29	FAMILY AC. NUM. CONTR.:	1
30	PATENT INFORMATION:	

LS	ANSWER	159	OF	163	CARLOS	COPYRIGHT	2009	ACS	ON	STN	(Continued)
					DE	1996-19964965					A 1997121
					EP	1997-915409					A3 1997032
					MO	1997-EP1406					W 1997032
					DS	1998-155637					A3 1998092
					DS	2000-550105					A3 2000041
					DS	2003-871611					A3 2003060

OTHER SOURCE(S): MARPAT 127:338875  
 CT



with 7- $\alpha$ -chloro-5 $\alpha$ -pregnen-20-one prepared. Thus, 2,2,6,6-Cl<sub>4</sub>H<sub>4</sub>O<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>CH<sub>3</sub> was treated with 1.0 g of 7- $\alpha$ -chloro-5 $\alpha$ -pregnen-20-one, 2.0 g of 2,2,6,6-tetrachloro-1,3-dioxane, and 1.0 g of 10% KOH in 100 ml of 2,2,6,6-tetrachloro-1,3-dioxane and cyclized with heat to give the pyrogallone 1, 1.0 g, 0.2 g, 2.0 g, and 1.00 g total of 1, 2, 3, and 4, respectively.

17 197710-15-1P 297710-16-1P 297710-17-1P 297710-18-1P 297710-19-1P 297710-20-1P 297710-21-1P 297710-22-1P

18 197710-23-1P 197710-24-1P 197710-25-1P 197710-26-1P 197710-27-1P 197710-28-1P 197710-29-1P 197710-30-1P 197710-31-1P

19 197710-32-1P 197710-33-1P 197710-34-1P 197710-35-1P 197710-36-1P 197710-37-1P 197710-38-1P 197710-39-1P 197710-40-1P

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23 197710-68-1P 197710-69-1P 197710-70-1P 197710-71-1P 197710-72-1P 197710-73-1P 197710-74-1P 197710-75-1P 197710-76-1P

24 197710-77-1P 197710-78-1P 197710-79-1P 197710-80-1P 197710-81-1P 197710-82-1P 197710-83-1P 197710-84-1P 197710-85-1P

25 197710-86-1P 197710-87-1P 197710-88-1P 197710-89-1P 197710-90-1P 197710-91-1P 197710-92-1P 197710-93-1P 197710-94-1P

26 197710-95-1P 197710-96-1P 197710-97-1P 197710-98-1P 197710-99-1P 197710-100-1P 197710-101-1P 197710-102-1P 197710-103-1P

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28 197710-113-1P 197710-114-1P 197710-115-1P 197710-116-1P 197710-117-1P 197710-118-1P 197710-119-1P 197710-120-1P 197710-121-1P

29 197710-122-1P 197710-123-1P 197710-124-1P 197710-125-1P 197710-126-1P 197710-127-1P 197710-128-1P 197710-129-1P 197710-130-1P

30 197710-131-1P 197710-132-1P 197710-133-1P 197710-134-1P 197710-135-1P 197710-136-1P 197710-137-1P 197710-138-1P 197710-139-1P

31 197710-140-1P 197710-141-1P 197710-142-1P 197710-143-1P 197710-144-1P 197710-145-1P 197710-146-1P 197710-147-1P 197710-148-1P

32 197710-149-1P 197710-150-1P 197710-151-1P 197710-152-1P 197710-153-1P 197710-154-1P 197710-155-1P 197710-156-1P 197710-157-1P

33 197710-158-1P 197710-159-1P 197710-160-1P 197710-161-1P 197710-162-1P 197710-163-1P 197710-164-1P 197710-165-1P 197710-166-1P

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37 197710-194-1P 197710-195-1P 197710-196-1P 197710-197-1P 197710-198-1P 197710-199-1P 197710-200-1P 197710-201-1P 197710-202-1P

38 197710-203-1P 197710-204-1P 197710-205-1P 197710-206-1P 197710-207-1P 197710-208-1P 197710-209-1P 197710-210-1P 197710-211-1P

39 197710-212-1P 197710-213-1P 197710-214-1P 197710-215-1P 197710-216-1P 197710-217-1P 197710-218-1P 197710-219-1P 197710-220-1P

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42 197710-239-1P 197710-240-1P 197710-241-1P 197710-242-1P 197710-243-1P 197710-244-1P 197710-245-1P 197710-246-1P 197710-247-1P

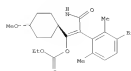
43 197710-248-1P 197710-249-1P 197710-250-1P 197710-251-1P 197710-252-1P 197710-253-1P 197710-254-1P 197710-255-1P 197710-256-1P

44 197710-257-1P 197710-258-1P 197710-259-1P 197710-260-1P 197710-261-1P 197710-262-1P 197710-263-1P 197710-264-1P 197710-265-1P

45 197710-266-1P 197710-267-1P 197710-268-1P 197710-269-1P 197710-270-1P 197710-271-1P 197710-272-1P 197710-273-1P 197710-274-1P

46 197710-275-1P 197710-276-1P 197710-277-1P 197710-278-1P 197710-279-1P 197710-280-

#### Relative stereochemistry



EN 197710-16-Q CAPLUS  
 CN Carbonic acid, 3-[3-bromo-4-methoxy-2-methylphenyl]-8-methoxy-2-oxo-]

seed



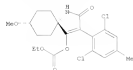
Page 25



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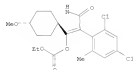
18 ANSWER 161 OF 163 CAPLOS COPYRIGHT 2009 ACS on STN (Continued)  
and optimization of the resultant ester with KBrO<sub>4</sub>-test in THF (73%), gave  
title compd. II. In a test against *Myra parvipes* at 0.1%, II gave 100%  
kill in 6 days. At 250 g/ha propanterone, released I gave 80-100% kill  
of  
4 weeds with 0-59% damage to *Beta vulgaris*.  
IT 161111-33-IP 161515-35-3P 161511-36-4P  
Me: AOR (Agricultural use); BNC (Biological activity or effector, acceptor  
adverse); BDO (Biological study, unclassified); SWH (Synthetic  
preparation); BDL (Biological study); PRD (Preparation); USES (Uses)  
[Preparation of alkyldibenzophenyl-substituted keto enols as  
pesticides and  
herbicides]  
IN 161111-33-1 CAPLOS  
CN Carboxylic acid, 3-[2-(4-dichloro-4-methylphenyl)-8-methoxy-2-oxo-1-  
azaspiro[4.5]deco-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IN 161515-35-3 CAPLOS  
CN Carboxylic acid, 3-[2-(4-dichloro-4-methylphenyl)-8-methoxy-2-oxo-1-  
azaspiro[4.5]deco-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



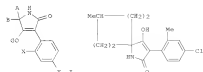
IN 161515-36-4 CAPLOS  
CN Carboxylic acid, 3-[2-(4-dichloro-4-methylphenyl)-8-methoxy-2-oxo-1-  
azaspiro[4.5]deco-3-en-4-yl ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

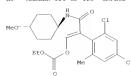
18 ANSWER 162 OF 163 CAPLOS COPYRIGHT 2009 ACS on STN (Continued)  
ACCESSION NUMBER: 123123123  
DOCUMENT NUMBER: 123123123  
ORIGINAL REFERENCE NO.: 123123123  
TITLE: Preparation of 3-(2-arypyrrolidine-2,4-dione  
pesticides and herbicides  
INVENTOR(S): Fischer, Reiner; Reischberger, Thomas; Kruenger,  
Bernd-Michael; Rother, Michael; Erdelen, Christoph;  
Machendorf-Hermann, Ulrike; Santel, Hans-Joachim  
PATENT ASSUREE(S): Bayer A.-G., Germany  
SOURCE: Ger. Offen., 158 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNTRY: 1  
PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4431730	A	19950810	DE 1994-4431730	19940906
US 582397	A	19970422	US 1995-383801	19950103
EP 668247	A1	19950812	EP 1995-103136	19950217
EP 668247	B1	19980408		
A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z				
EP 214238	T9	19980316	EA 1995-103136	19950217
CA 2141923	A	19950810	CA 1995-421923	19950208
AO 9511570	A	19950817	AO 1995-13570	19950206
JP 5782522	A	19951003	JP 1995-42613	19950209
JP 582335	B2	20050302		
EA 9501024	A	19951011	EA 1995-1006	19950208
BR 9502415	B	19960227	BR 1995-475	19950208
US 5816896	A	19951025	US 1995-103136	19950209
CN 1081719	A	20020319		
US 5841271	A	19981208	US 1996-79582	19961209
PRIORITY APPL. INFO.			DE 1994-440401	19940209
			DE 1994-4431730	19940906
			US 1995-383801	19950209

OTHER SOURCE(S): NAKPAT 123:339723  
GE



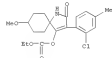
18 ANSWER 161 OF 163 CAPLOS COPYRIGHT 2009 ACS on STN (Continued)



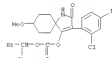
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS  
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE IE

18 ANSWER 162 OF 163 CAPLOS COPYRIGHT 2009 ACS on STN (Continued)

AB The title compds. [I, A = H, (un)substituted alkyl, alkenyl,  
(un)substituted cycloalkyl, (un)substituted aryl or heteroaryl; B = H,  
alkyl, alkenyl, aryl; C = H, (un)substituted carbonyl deriv.,  
(un)substituted sulfonyl deriv., etc.; D, Y = halogen, alkyl, useful as  
pesticides and herbicides, are prepared. Thus, pyrrolidinedione  
B-isomer [II], n.p. >200° was prepared and demonstrated 95%  
control of *Metaphyas utriculae*-infected Phaseolus vulgaris at 0.02% II  
over 7 days.  
IT 170920-94-2P 170920-95-3P 170921-06-1P  
170921-09-2P  
RI: AOR (Agricultural use); SWH (Synthetic preparation); BDL (Biological  
study); PRD (Preparation); USES (Uses)  
[Preparation of 2B-3-arypyrrolidine-2,4-dione pesticides and  
herbicides]  
IN 170920-94-2 CAPLOS  
CN Carboxylic acid, 3-[2-(4-chloro-4-methylphenyl)-8-methoxy-2-oxo-1-  
azaspiro[4.5]deco-3-en-4-yl ethyl ester (CA INDEX NAME)

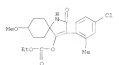


IN 170920-95-3 CAPLOS  
CN Carboxylic acid, 3-[2-(4-chloro-4-methylphenyl)-8-methoxy-2-oxo-1-  
azaspiro[4.5]deco-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)

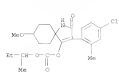


IN 170921-06-1 CAPLOS  
CN Carboxylic acid, 3-[4-(4-chloro-2-methylphenyl)-8-methoxy-2-oxo-1-  
azaspiro[4.5]deco-3-en-4-yl ethyl ester (CA INDEX NAME)

18 ANSWER 163 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



32 17021-29-2 CAPLUS  
 CH Carboxylic acid, 2-[(4-chloro-2-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)

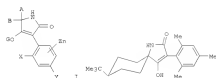


18 ANSWER 163 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1994-690537 CAPLUS  
 DOCUMENT NUMBER: 1211280537  
 ORIGINAL REFERENCE NO.: 1211280537  
 TITLE: Preparation of 5-substituted 1-m-3-oxylipidolide-2,4-dione derivatives as herbicides, insecticides and acaricides  
 INVENTOR(S): Fischer, Helmut; Bretschneider, Thomas; Kneuper, Bernd  
 PATENT ASSIGNEE(S): Wieland, Erdlen, Christoph; Saitel, Hans Joachim; Luerzen, Klaus; Schmidt, Robert F.; Wachendorf-Haumann, Ulrike; Stensel, Wilhelm  
 SOURCE: Bayer A.G., Germany  
 Eur. Pat. Appl., 107 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: COBOL 87/2/2M  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 596298	A2	19940511	EP 1993-116687	19931015
EP 596298	A3	19940720		19930902
EP 596298	B1	20020109		
FI, GB, CH, IT, LI, NL, PT				
DE 4328929	A1	19940525	DE 1993-4328929	19931011
AG 2147440	A	19940512	AG 1993-47349	19930902
AU 664640	B2	19980125		
DE 2170903	T3	20040901	DE 1993-116687	19931015
US 5482013	A	19951031	US 1993-140635	19931011
CA 2109161	C	19940429	CA 1993-2109161	19931015
CA 2109161	A1	19940429		
JP 0628773	A	19940920	JP 1993-287228	19931015
JP 543471	B2	20020911		
BR 9304387	A	19940510	BR 1993-4387	19931017
ZA 9307980	A	19940603	ZA 1993-7980	19931017
CH 1066213	A	19940504	CH 1993-119176	19931010
CH 1044566	C	19990720		
AU 9520285	AU	19950810	AU 1995-20285	19950515
AD 675416	B2	19970206		
US 5677449	A	19971024	US 1995-462488	19950605
US 1130640	C	19980819	US 1997-125168	19971229
CH 1065514	C	20020509		
PRIORITY APPL. INFO.			DE 1992-4236401	A 19931010
			DE 1993-4328929	A 19930811
			US 1993-140635	A3 19931011

OTHER SOURCE(S): MARPAT 121280537  
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18 ANSWER 163 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



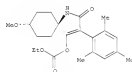
AB The preparation of title compds. I [A, B = (un)substituted carboxylic  
 ring; X  
 = alkyl, halo, alkoxy; Y = H, alkyl, halo, alkoxy, haloalkyl; Z = alkyl,  
 halo, alkoxy; n = 0-3; O = H, organocarboxyl, organosulfonyl,  
 organophosphoryl, aryl, alkyl metal or ammonium salts], useful as  
 herbicides, insecticides, and acaricides, is described. Thus, NaH  
 mediated cyclization of Me

II-[(2,4,6-trimethylphenyl)acetyl]-1-amine-6-test -  
 bicyclicchloroacetylamine in DMS gave IIA title compound II. Phendion,  
 Flutella, and Mephosulfate-tests of some of the compds. prepared is given.

IT 158866-99-09 158866-99-09  
 RI: AGS (Agricultural use); RAC (Biological activity or effector, except  
 adverse); RNC (Biological study, unclassified); RPT (Synthetic  
 preparation); RUC (Biological study); PRSP (Preparation); USES (Uses)  
 (preparation of, as herbicide, insecticide, and acaricide)

32 158866-99-0 CAPLUS  
 CH Carboxylic acid, ethyl 8-methoxy-2-oxo-3-[(2,4,6-trimethylphenyl)-1-  
 azaspiro[4.5]dec-3-en-4-yl ester, trans- (RCC) (CA INDEX NAME)

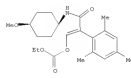
Relative stereochemistry.



32 158866-99-0 CAPLUS  
 CH Carboxylic acid, ethyl 8-methoxy-2-oxo-3-[(2,4,6-trimethylphenyl)-1-  
 azaspiro[4.5]dec-3-en-4-yl ester, trans- (RCC) (CA INDEX NAME)

Relative stereochemistry.

18 ANSWER 163 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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